

PTO/SB/08B (08-03)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>	
		Application Number	10/766,493
		Filing Date	January 27, 2004
		First Named Inventor	David H. Stark
		Art Unit	2831 3635
		Examiner Name	To be determined. RYAN KWIECINSKI
Sheet 1	of 1	Attorney Docket Number	STRK-26,581

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
RK	L03	KAZAKOV, N.F. (ed.); Diffusion Bonding of Materials; 1981; pp 4-304; Pergamon Press; U.S.A.	

Examiner Signature	/Ryan Kwiecinski/	Date Considered	03/07/2007
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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PTO/88/084 (08-03)

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SUPP. #1

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 3

**Complete if Known**

Application Number	10/766,493
Filing Date	January 27, 2004
First Named Inventor	STARK, David H.
Art Unit	2821 3635
Examiner Name	To be determined. Ryan Kwiecinski
Attorney Docket Number	STRK-26,581

U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)				
RK	01	US-	4,427,123	01/24/1984	Komeda et al.	
RK	02	US-	5,157,893	10/27/1992	Benson et al.	
RK	03	US-	5,175,975	01/05/1993	Benson, et al.	
RK	04	US-	5,856,914A	01/05/1999	O'Boyle	
RK	05	US-	6,141,925 A	11/07/2000	Halvorson, Jr. et al.	
RK	06	US-	6,168,040 B1	01/02/2001	Sautner et al.	
RK	07	US-	6,521,988	02/18/2003	Hauser et al.	
RK	08	US-	6,639,313	10/28/2003	Martin et al.	
RK	09	US-	6,653,724	11/25/2003	Kim et al.	
RK	10	US-	6,656,768	12/02/2003	Thomas	
RK	11	US-	6,668,500 A	12/30/2003	Lamberts	
RK	12	US-	6,698,849 B2	02/24/2004	Bari et al.	
RK	13	US-	6,723,379	04/20/2004	Stark	
RK	14	US-	6,736,295 B2	05/18/2004	Lin et al.	
RK	15	US-	20040104460 A1	06/03/2004	Stark	
RK	16	US-	6,759,590	07/06/2004	Stark	
RK	17	US-	6,763,638 A	07/20/2004	Berger, Jr.	
RK	18	US-	20040161530 A1	08/19/2004	Stark	
RK	19	US-	20040187437 A1	09/30/2004	Stark	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>4</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		N/A				

Examiner Signature	/Ryan Kwiecinski/	Date Considered	03/07/2007
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### Complete If Known

(Use as many sheets as necessary)

Application Number	10/766,493
Filing Date	January 27, 2004
First Named Inventor	STARK, David H.
Art Unit	2834 3635
Examiner Name	To be determined. RYAN KULEC
Attorney Docket Number	STRK-26581

[illegible][illegible]

03/07/2007.

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Substitute for form 1449/PTO

SUPP. #1

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Sheet	3	of	3	Application Number	10/766,493
				Filing Date	January 27, 2004
				First Named Inventor	David H. Stark
				Art Unit	2881 3635
				Examiner Name	To be determined. RYAN KWIECINSKI
				Attorney Docket Number	STRK-26,581

**NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS); title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
RK	L01	DUNKERTON; TWI Knowledge Summary Diffusion Bonding; Copyright 2001; TWI World Centre for Materials Joining Technology Website; www.twi.co.uk; United Kingdom; 4 pages.	
RK	L02	PCT; International Search Report of PCT/US04/02272 (related application); International Publication No. WO 2004/068189; 27 January 2004; 3 pages.	

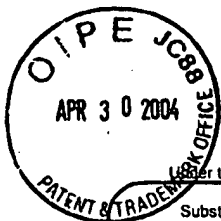
Examiner Signature	/Ryan Kwiecinski/	Date Considered	03/07/2007
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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**Complete if Known**

Application Number	10/766,493
Filing Date	January 27, 2004
First Named Inventor	David H. Stark
Art Unit	To Be Assigned <b>3635</b>
Examiner Name	To Be Assigned <b>Ryan Kwiecinski</b>
Attorney Docket Number	STRK-26,581

Sheet **1** of **3****U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
RK	01	US- 3,698,878	10/17/72	Hale et al.	
RK	02	US- 5,118,924	06/02/92	Mehra et al.	
RK	03	US- 5,302,414	04/12/94	Alkhimov et al.	
RK	04	US- 5,423,119	06/13/95	Yang	
RK	05	US- 6,139,913	10/31/00	Van Steenkiste et al	
RK	06	US- 6,191,359	02/20/01	Sengupta et al.	
RK	07	US- 6,627,814	09/30/03	Stark	
RK	08	US- 6,537,121	03/25/03	Baret	
RK	09	US- 6,548,895	04/15/03	Benavides et al.	
RK	10	US- 4,355,323	10/19/82	Hendrikus Kock	
RK	11	US- 5,945,721	08/31/99	Nobuyoshi Tatoh	
RK	12	US- 5,949,655	09/07/99	Thomas Glenn	
RK	13	US- 6,020,628	02/01/00	Brian Mravic et al.	
RK	14	US- 5,625,222	04/1997	Yoneda et al.	
	15	US-			
	16	US-			
	17	US-			
	18	US-			
	19	US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner Signature	/Ryan Kwiecinski/	Date Considered	03/07/2007
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First Named Inventor	David H. Stark
Art Unit	To Be Assigned 3635
Examiner Name	To Be Assigned RYAN KWIECINSKI
Attorney Docket Number	STRK-26,581

Sheet	2	of	3
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**NON PATENT LITERATURE DOCUMENTS**

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RK	200	DORON TEOMIM, AVNER BADIHI, GIL ZILBER, "An innovative approach to wafer-level MEMS packaging"; Solid State Technology (Magazine); January 2002; Penwell (Publ.); Nashua, NH USA.	
RK	201	Carpenter Specialty Alloys: Controlled-Expansion Alloys (Catalog/Brochure); December 1999; Pages 1-24 (esp. 5-8); Carpenter Technology Corporation (Publ.); Wyomissing, PA USA.	
RK	202	JPL Technology Reporting Office; "Hermetic Wafer Bonding By Use of Microwave Heating"; NASA Tech Brief, Vol. 25, No. 5, from JPL New Technology Report NPO-20608 (NASA Contract No. NAS-7-918); May 1, 2001; Jet Propulsion Laboratory, California Institute of Technology (Publ.); Pasadena, CA, USA; including therein:	
RK		NTR Inventors Report by HENRY W JACKSON, JOHN D MAI, MARTIN B BARMATZ, NASSER K BUDRAA, WILLIAM T PIKE; NASA Case No. 0205 20608; March 1997(?) (Best Available Copy); including therein: (same authors) "Low Pressure and Low Temperature Hermetic Wafer Bonding Using Microwave Heating"; Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA, USA (Best Available Copy)	
RK	203	GEORGE S. BRADEY, ET AL., Materials Handbook, 12th Edition; 1986; pp 28-29; McGraw-Hill Book Company; New York.	
RK	204	R.C. DYKHUIZEN ET AL.; Gas Dynamic Principles of Cold Spray; Journal of Thermal Spray Technology; Vol. 7(2); pp 205-212; June, 1998.	
RK	205	KAZAKOV, N.F. (ed.); Diffusion Bonding of Materials; 1981; pp 4-9, 248-257; Pergamon Press; U. S. A.	
RK	206	NICHOLS, M.G. & LEE, R. J.; Joining Dissimilar Materials, Metals and Materials, The Journal of the Institute of Metals, Vol. 5, No. 6, June 1989; UK.	
RK	207	CERJAK, H. (ed.); Mathematical Modelling of Weld Phenomena 5; Diffusion Bonding of Glass to Metal in an Electrostatic Field; M. Morsy et al.; pp 945-959; London IOM Communications, 2001.	
RK	208	OSTYN, K. & VINCKIER, A.; Joining of Different Materials Through Interfaces; Interfaces in Materials, Proceedings of the Colloquium; pp. 153-173; Brussels, 12/1988.	

Examiner Signature	/Ryan Kwiecinski/	Date Considered	03/07/2007
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First Named Inventor	David H. Stark
Art Unit	To Be Assigned 3635
Examiner Name	To Be Assigned RYAN KWIECINSKI
Attorney Docket Number	STRK-26,581

Sheet 3 of 3

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
RK	209	ARATA ET AL. Pressure and Field Assisted Bonding of Glass to Aluminum; Transactions of JWRI is published by Welding Research Institute of Osaka University; Vol. 13; No. 1; 1984; pp 35-40.	
RK	210	SADPYSKY ET AL.; Precision Welding of Glass to Kovar Without Melting; Svarochnoe Proizvodstvo; February 1973; pp 22; (In Russian, English translation provided).	✓
RK	211	KAZAKOV ET AL.; Equipment for Diffusion Welding of Rectangular Glass Plates to Kovar; Svarochnoe Proizvodstvo; June 1977; p 50; (In Russian, English translation provided).	✓
RK	212	PCT; International Search Report of PCT/US03/07553 (related application); International Publication No. WO 03/083938 A1; 16 June 2003; 2 pg.	

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